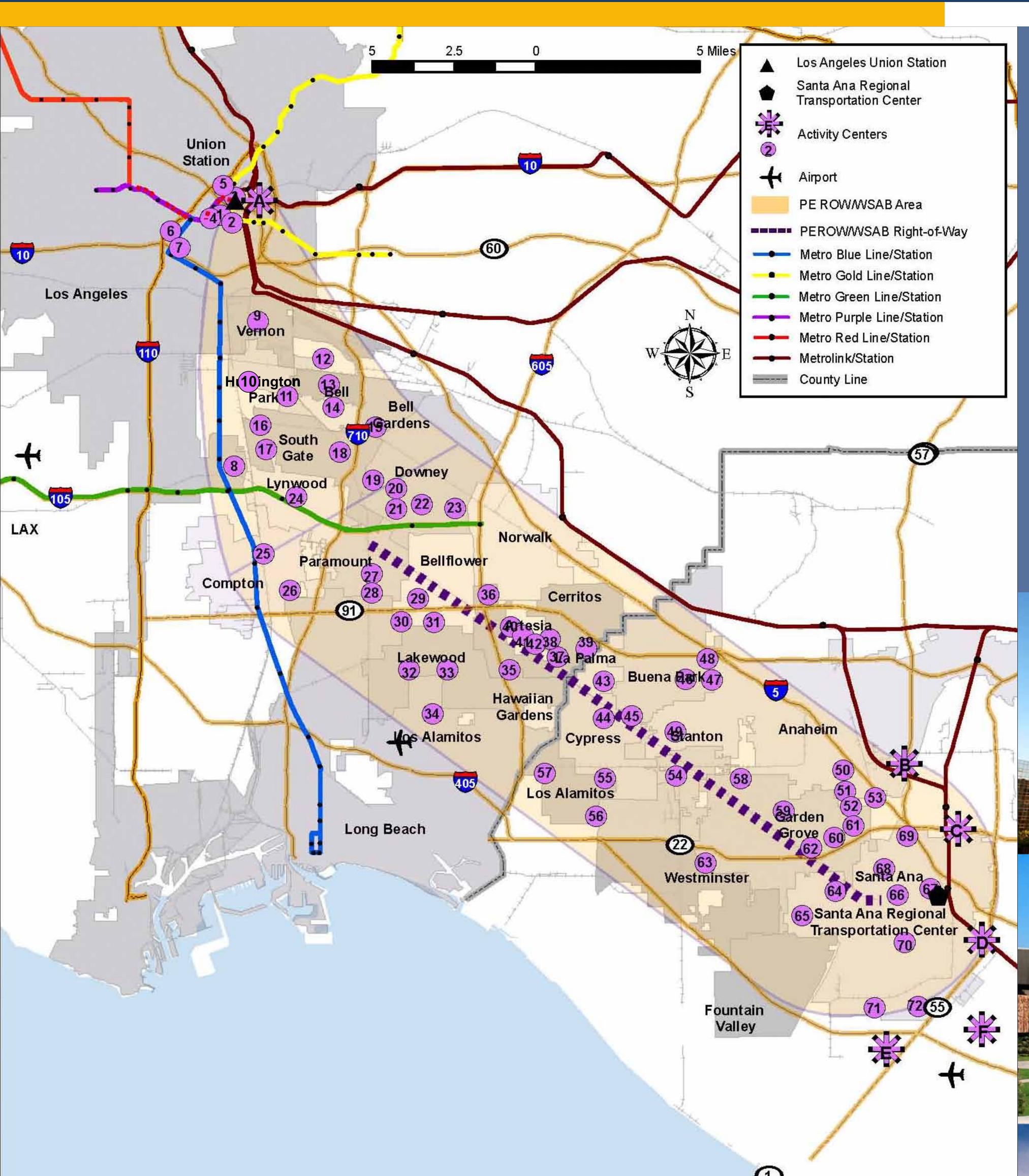
1 THE CORRIDOR TODAY





- PEROW/WSAB Right-of-Way portion of the Corridor Study Area is 20 miles long and
- Northern Connections Area, running north to Downtown Los Angeles/Union Station, is 12 miles long.
- The Corridor has a diverse set of activity centers and destinations, including civic centers, schools and colleges, parks, shopping, employment centers and visitor cultural and entertainment destinations.
- Today the Corridor is home to 4.5 million people 3.3 million live in Los Angeles County and 1.2 million reside in Orange County. By 2035, the Corridor population will grow by 12%.
- Today 2.2 million jobs are located in the Corridor 1.5 million in Los Angeles County and 700,000 in Orange County. By 2035, Corridor jobs in Orange County will increase by 13%, while Corridor jobs in Los Angeles County will decrease by 4%.
- By 2035, total daily travel will increase by 20%.
- More than 85% of work trips are made by car.

averages 100 feet in width.

ACTIVITY CENTERS/DESTINATIONS

- 1. Civic Center, Los Angeles
- 2. Little Tokyo, Los Angeles 3. Olvera Street and Pueblo de Los Angels State 40. Civic Center, Artesia
- Park, Los Angeles
- 4. Music Center and Disney Hall, Los Angeles 5. Chinatown, Los Angeles
- 6. Staples Center and Los Angeles Convention 44. Civic Center, Cypress Center, Los Angeles
- 7. California Hospital and Medical Center, Los
- 8. Watts Tower State Historic Park, Los Angeles
- 9. Civic Center, Vernon 10. Pacific Avenue, Huntington Park
- 11. Community Hospital, Huntington Park
- 12. Civic Center, Maywood
- 13. Civic Center, Bell 14. Civic Center, Cudahy
- 15. Civic Center, Bell Gardens
- 16. South Gate Plaza, South Gate
- 17. Civic Center, South Gate

18. South Gate Park, South Gate

- 19. Los Amigos County Golf Course, Downey 20. Rancho Los Amigos Medical Center, Downey
- 21. Civic Center, Downey
- 22. Stonewood Shopping Center, Downey
- 23. Downey Medical Center, Downey 24. Civic Center, Lynwood
- 25. Civic Center, Compton
- 26. Compton Community College, Compton 27. Civic Center, Paramount
- 28. Suburban Medical Center, Paramount
- 29. Civic Center, Bellflower
- 30. Bellflower Medical Center, Bellflower 31. Bellwood General Hospital, Bellflower
- 32. Lakewood Center Mall, Lakewood
- 33. Civic Center, Lakewood

- 35. Los Cerritos Cneter and Best Plaza, Cerritos
- 34. Long Beach City College, Long Beach
- 36. Cerritos College, Cerritos 37. Civic Center, Cerritos

38. Cerritos Town Center, Cerritos

39. Cerritos Center for Performing Arts, Cerritos

- 41. Little India. Artesia
- 42. Pioneer Hospital, Artesia
- 43. Civic Center, La Palma

45. Cypress College, Cypress

- 46. Knott's Berry Farm, Buena Park 47. Buena Park Mall, Buena Park
- 48. Civic Center, Buena Park
- 49. Anaheim General Hospital, Anaheim 50. Anaheim Convention Center, Anaheim
- 51. Disneyland, Anaheim
- 52. The City Center, Anaheim
- 53. UC Irvine Medical Center, Anaheim
- 54. Civic Center, Stanton
- 55. Los Alamitos Racetrack, Los Alamitos
- 56. Los Alamitos Armed Forces Reserve Center, Los Alamitos
- 57. Civic Center, Los Alamitos
- 58. Garden Grove Promenade and Pavilion
- Plaza, Garden Grove
- 59. Civic Center, Garden Grove
- 60. Harbor Plaza and Garden Grove Center, Garden Grove
- 61. Crystal Cathedral, Garden Grove
- 62. Garden Grove Hospital, Garden Grove 63. Little Saigon, Westminster
- 64. Willowbrook Municipal Golf Course, Santa Ana
- 65. Centennial Regional Park, Santa Ana
- 66. Civic Center, Santa Ana
- 67. Downtown Santa Ana, Santa Ana
- 68. Rancho Santiago College, Santa Ana
- 69. Bristol Market Place, Santa Ana 70. Coastal Communities Hospital, Santa Ana
- 71. South Coast Plaza, Costa Mesa
- 72. Orange County Performing Arts Center,







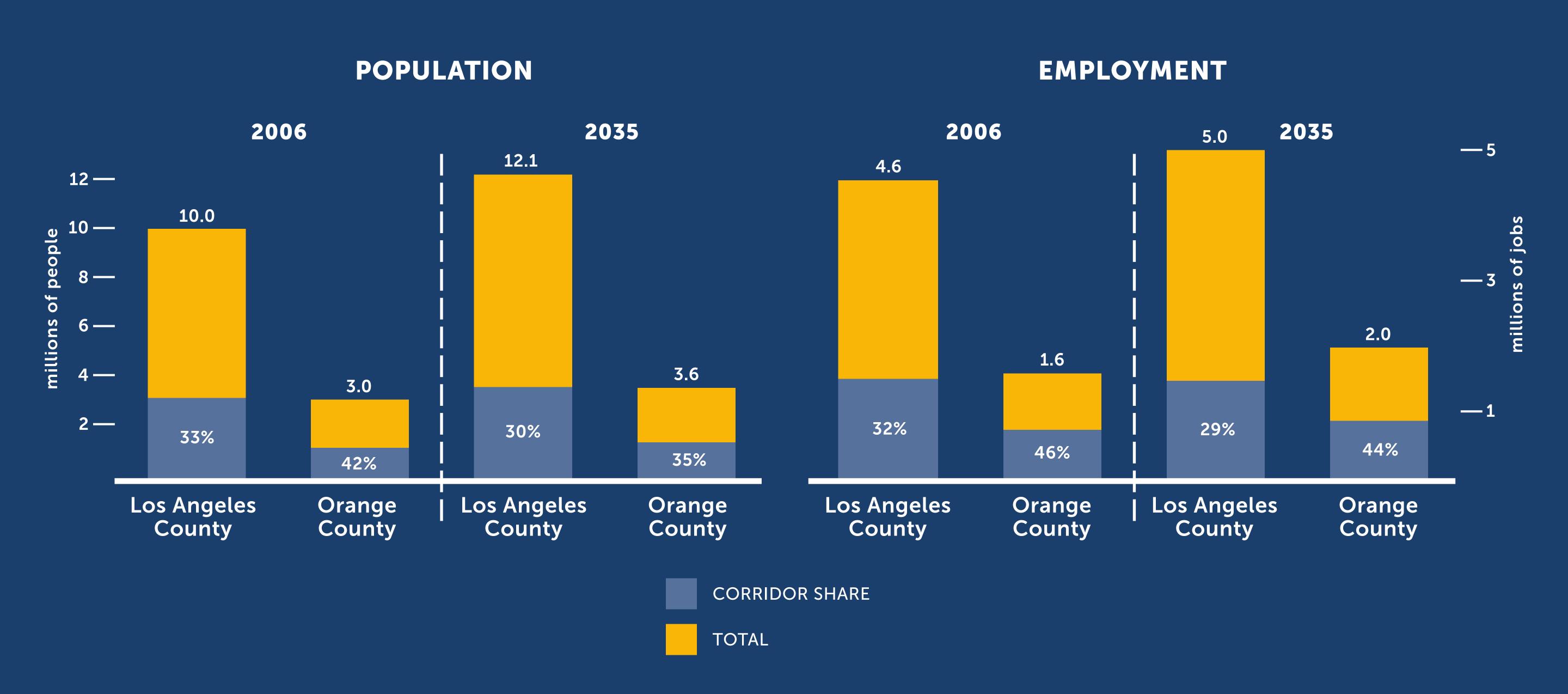




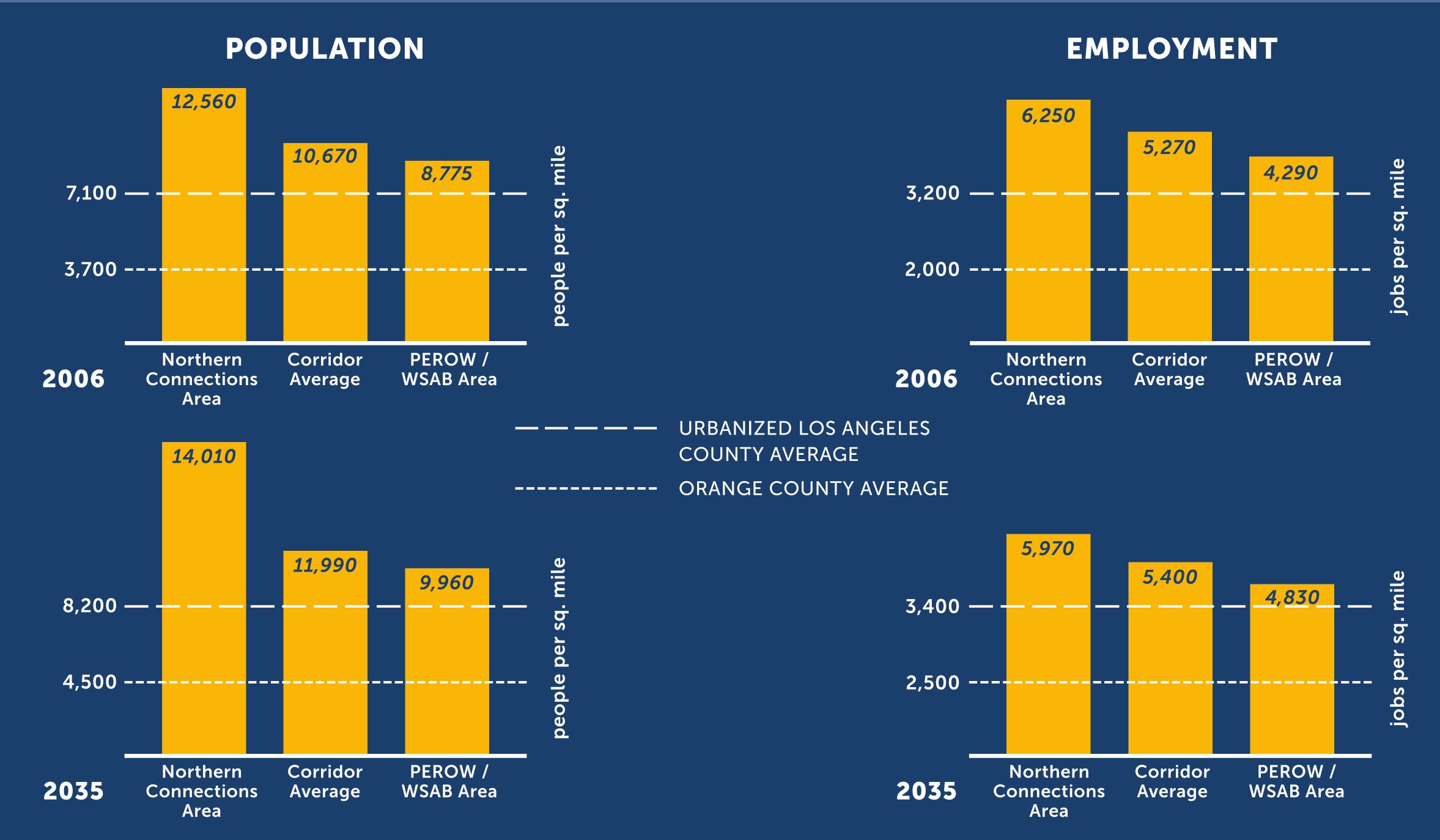




Large share of regional population and employment



Existing and future high population and employment densities



















From a transportation system perspective:

- Corridor highway system operates at-capacity and beyond today and in the future
- Corridor residents lack connections to the regional transit system and have few travel options
- Corridor transit system operates at-capacity and beyond in some areas
- Corridor contains a significant low income/transit dependent population









ALTERNATIVES DEFINED BY:

· HORIZONTAL ALIGNMENT • VERTICAL ALIGNMENT

ALIGNMENT	BRT	STREETCAR	LIGHT RAIL	DIESEL MULTIPLE UNIT	HIGH SPEED RAIL
At-grade					
Above-grade					
Below-grade The state of the s					



BRT ALIGNMENTS

Trips

Serves regional and local trips

Alignment

Use PEROW/WSAB ROW and freeway HOV lanes or street-running operations north

Speed

Street-running (10-14 mph); HOV (25-

Station

Spacing

Land Use Plans

35 mph)

1.0 mile between stations

Support for development/revitalization plans proven internationally (Canada, Australia)

















RAIL ALIGNMENTS

Trips

Serves regional and local trips

Alignment

Use PEROW/WSAB ROW and then RR ROWs north with temporal separation or provide 3 tracks

Speed

Provides a low to medium speed: 8.5-15 mph (streetcar); 25-35 mph (LRT); 25-55 mph (DMU)

Station Spacing

0.2-0.5 miles between stops (streetcar); 1-1.5 miles (LRT); 1.5-3.0 miles (DMU)

Land Use

Demonstrated support for development/revitalization plans





HSR ALIGNMENT

Trips

Serves regional trips

Alignment

Use PEROW/WSAB ROW and then operate above RR ROWs north

Speed

Provides high speed of 110-220 mph

Station Spacing

10-20 miles between stations

Land Use

Demonstrated support for high density development nationally (Conventional) and internationally (Conventional & Maglev)













Trip Types: Regional and Local Distance Between Stops: 1.0 miles

Speeds: 10-14 mph (street-running), 25-35 mph (HOV)

Conceptual Ridership: 19,200-32,400

OPERATING ASSESSMENT

Metro/OCTA Fit: Yes

Domestic Revenue Service: Yes

Meets Federal "Buy America" Requirements: Yes

ORDER-OF-MAGNITUDE COSTS

Conceptual Construction Costs (2010\$)

At-Grade: \$0.60 billion Above Grade: \$2.18 billion

Below Grade: Not done due to ventilation issues

Conceptual Annual Cost to Operate: \$80-120 per service hour

Current Fare Per Trip: \$1.50 (Metro Orange Line)
Conceptual Annual Cost Per Rider: \$20-50

ENVIRONMENTAL/COMMUNITY BENEFITS/IMPACTS

Air Quality Benefits: Yes

Average Noise: 63 dBA/65 dBA (electric/diesel buses)

Vibration Impacts: Category 1

Visual and Privacy: Depends on whether at-grade or above-grade operations

Acquisition: Minimal (maintenance facility)

Traffic Impacts: At grade=major; Above-grade=minor

Land Use Plans: Support for local development/revitalization plans not proven in U.S.











Trip Types: Local

Distance Between Stops: 0.2-0.5 miles

Speeds: 8.5-15 mph (mixed-flow), 25-40 mph (separate right-of-way)

Conceptual Ridership: 26,000-39,000

OPERATING ASSESSMENT

Metro/OCTA Fit: May fit future OCTA plans

Domestic Revenue Service: Yes

Meets Federal "Buy America" Requirements: Yes

ORDER-OF-MAGNITUDE COSTS

Conceptual Construction Costs (2010\$)

At-Grade: \$1.30 billion Above Grade: \$3.95 billion Below Grade: \$9.81 billion

Conceptual Annual Cost to Operate: \$140-150 per service hour

Current Fare Per Trip: \$2.05 (Portland)

Conceptual Annual Cost Per Rider: \$10-40

ENVIRONMENTAL/COMMUNITY BENEFITS/IMPACTS

Air Quality Benefits: Yes

Average Noise: 64 dBA (4-lane highway=79 dBA)

Vibration Impacts: Category 1 or 2

Visual and Privacy: Depends on whether at-grade or above-grade operations

Acquisition: Minimal (maintenance facility)

Traffic Impacts: At grade=major; Above-grade=minor

Land Use Plans: Proven support for local development/revitalization plans











Trip Types: Regional and Local

Distance Between Stops: 1.0-1.5 miles

Speeds: 25-35 mph (mixed-flow), 45-55 mph (separate right-of-way)

Conceptual Ridership: 26,000-57,600

OPERATING ASSESSMENT

Metro/OCTA Fit: Yes

Domestic Revenue Service: Yes

Meets Federal "Buy America" Requirements: Yes

ORDER-OF-MAGNITUDE COSTS

Conceptual Construction Costs (2010\$)

At-Grade: \$1.60 billion Above Grade: \$4.21 billion Below Grade: \$10.61 billion

Conceptual Annual Cost to Operate: \$160-250 per service hour

Current Fare Per Trip: \$1.50 (Metro Rail System)
Conceptual Annual Cost Per Rider: \$10-50

ENVIRONMENTAL/COMMUNITY BENEFITS/IMPACTS

Air Quality Benefits: Yes

Average Noise: 64 dBA (4-lane highway=79 dBA)

Vibration Impacts: Category 3 (may require mitigation)

Visual and Privacy: Depends on whether at-grade or above-grade operations

Acquisition: Less than 10 parcels

Traffic Impacts: At grade=major; Above-grade=minor

Land Use Plans: Proven support for local development/revitalization plans











Trip Types: Regional and Local

Distance Between Stops: 1.5-3.0 miles

Speeds: 25-35 mph (mixed-flow), 45-55 mph (separate right-of-way)

Conceptual Ridership: 26,000-57,600

OPERATING ASSESSMENT

Metro/OCTA Fit: No

Domestic Revenue Service: Yes

Meets Federal "Buy America" Requirements: Yes

ORDER-OF-MAGNITUDE COSTS

Conceptual Construction Costs (2010\$)

At-Grade: \$1.22 billion Above Grade: \$4.11 billion

Below Grade: Not done due to ventilation issues

Conceptual Annual Cost to Operate: \$250-300 per service hour

Current Fare Per Trip: \$2.00 (NCTD Sprinter)
Conceptual Annual Cost Per Rider: \$10-50

ENVIRONMENTAL/COMMUNITY BENEFITS/IMPACTS

Air Quality Benefits: Yes/No

Average Noise: 65 dBA (4-lane highway=79 dBA)

Vibration Impacts: Category 4 or 5 (may require mitigation)

Visual and Privacy:

Acquisition: Less than 10 parcels (plus maintenance facility)

Traffic Impacts: At grade=major; Above-grade=minor

Land Use Plans: Support for local development/revitalization plans not proven









Trip Types: Regional

Distance Between Stops: 10-20+ miles Speeds: 110-220 mph (grade-separated) Conceptual Ridership: 2,400-4,800

OPERATING ASSESSMENT

Metro/OCTA Fit: No

Domestic Revenue Service: Yes

Meets Federal "Buy America" Requirements: Yes

ORDER-OF-MAGNITUDE COSTS

Conceptual Construction Costs (2010\$)

At-Grade: NA (grade-separated to achieve high speeds)

Above Grade: \$4.91 billion Below Grade: \$13.35 billion

Conceptual Annual Cost to Operate: \$2,500-3,000 per service hour

Current Fare Per Trip: \$50-55 (Amtrak Acela service)

Conceptual Annual Cost Per Rider: \$460-920

ENVIRONMENTAL/COMMUNITY BENEFITS/IMPACTS

Air Quality Benefits: Yes

Average Noise: 65 dBA (4-lane highway=79 dBA)

Vibration Impacts: Category 5 (may require mitigation)
Visual and Privacy: Major due to above-grade operations

Acquisition: More than 100 parcels

Traffic Impacts: Minor due to above-grade operations

Land Use Plans: Operated in areas with high density development/plans











Trip Types: Regional

Distance Between Stops: 10-20+ miles Speeds: 150-270+ mph (grade-separated)

Conceptual Ridership: 2,400-4,800

OPERATING ASSESSMENT

Metro/OCTA Fit: No

Domestic Revenue Service: Not yet

Meets Federal "Buy America" Requirements: Not yet

ORDER-OF-MAGNITUDE COSTS

Conceptual Construction Costs (2010\$)

At-Grade: NA (grade-separated to achieve high speeds)

Above Grade: \$5.94 billion Below Grade: \$14.01 billion

Conceptual Annual Cost to Operate: \$2,500-3,000 per service hour

Current Fare Per Trip: NA

Conceptual Annual Cost Per Rider: \$580-1,150

ENVIRONMENTAL/COMMUNITY BENEFITS/IMPACTS

Air Quality Benefits: Yes/No

Average Noise: 64 dBA (4-lane highway=79 dBA)

Vibration Impacts: Category 4 or 5 (may require mitigation)
Visual and Privacy: Major due to above-grade operations

Acquisition: More than 100 parcels (plus maintenance facility)

Traffic Impacts: Minor due to above-grade operations

Land Use Plans: Support for local development/revitalization plans not proven in U.S.





INITIAL SCREENING RESULTS



	BRT	STCR	LRT	DMU	F- Conventional	ISR Maglev
Serves: Local Trips Regional Trips	0		0	0	0	
Provides support for local plans	*	0	0	*	*	*
Requires acquisition	MINIMAL	MINIMAL	MINOR	MINOR	MAJOR	MAJOR
Has air quality benefits	YES	YES	YES	NO**	YES	YES
Fits with current system plans	0			NO	NO	NO
Has State and Federal approved vehicles/system	0					NOT YET
Conceptual ridership	19,200-32,400	26,000-39,000	26,000-57,600	26,000-57,600	2,400-4,800	2,400-4,800
Conceptual cost to build (2010, billions)	\$0.6-2.2	\$1.3-4.0	\$1.6-4.2	\$1.2-4.1	\$4.9	\$5.9
Conceptual cost per rider	\$20-50	\$10-40	\$10-50	\$10-50	\$460-920	\$580-1,150
Speeds	10-35 mph	15-40 mph	25-55 mph	25-55 mph	110-220 mph	150-270+ mph
Noise	63 dBa/65 dBa	64 dBa	64 dBa	65 dBa	71 dBa	64 dBa
Vibration	Category 1	Category 1 or 2	Category 3***	Category 4 or 5***	Category 5***	Category 4 or 5***

^{*} Proven nationally and internationally

WHERE WE GO FROM HERE

In January 2011, two alternatives will be identified for further study based on:

- Meets Project Purpose and Need
- Appears viable from cost/ridership, funding, engineering, operating and environmental perspective
- Meets local goals
- Has public and stakeholder support







^{**} Some regional benefits

^{***} Mitigation may be required





Preliminary Analysis February-April 2010

PHASE 1 ENVISIONING OUR FUTURE INITAL SET OF ALTERNATIVES



Project Initiation /Scoping May-June 2010





Initial Alternatives Screening July-December 2010



Final Screening January-September 2011 MEETINGS PHASE 2 EXPLORING THE POSSIBILITIES FINAL SET OF

Draft Alternatives Analysis Report

October 2011



Final Alternatives Analysis Report With Recommendations November-December 2011

PHASE 3 REALIZING OUR PREFERRED FUTURE

Next Steps SCAG/LACMTA/OCTA Actions



